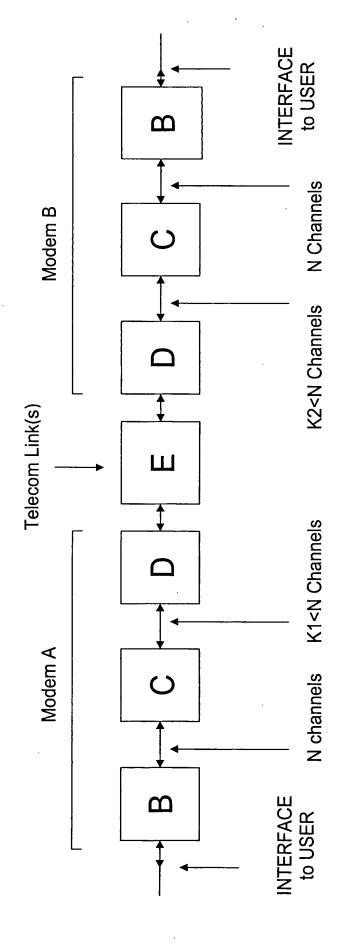
Fig. 1 – The Space-Time Link Block Diagram (point to point connectivity)

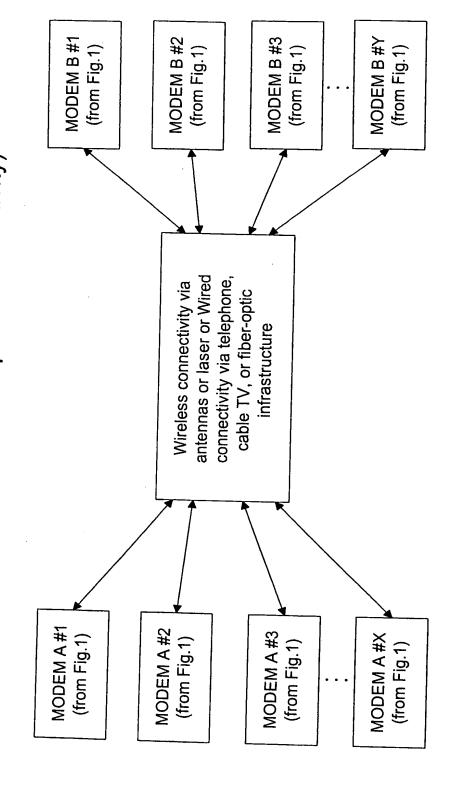
B = Space-Time MIMO transceiver
C = Space-Time Antenna Reduction Chamber or Expansion Chamber (STARC or STAEC)
D = Frequency Spectrum Shifting Module (Repeater)
E = Telecommunication infrastructure or wireless

= Telecommunication infrastructure or wireless



K1 = 1 to N-1 is the number of input/output channels of Modem A K2 = 1 to N-1 is the number of input/output channels of Modem B

Fig. 2 - The Space-Time Link Block Diagram (multi-point to multi-point connectivity)



X and Y can be any number of modems. X does not have to equal Y

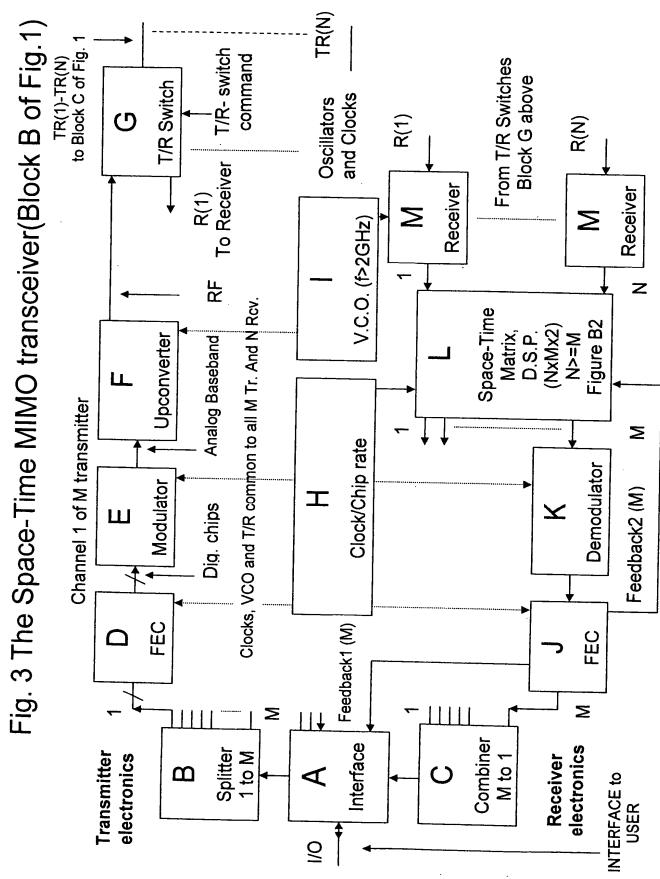
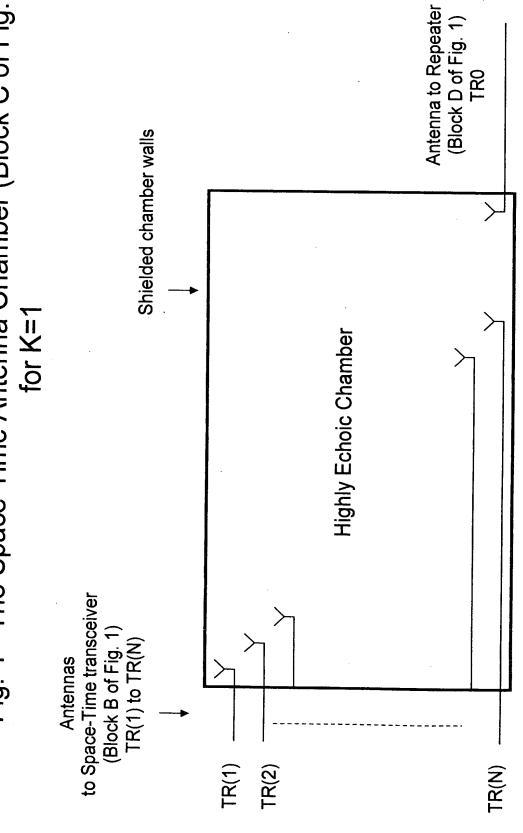


Fig. 4 - The Space-Time Antenna Chamber (Block C of Fig. 1)



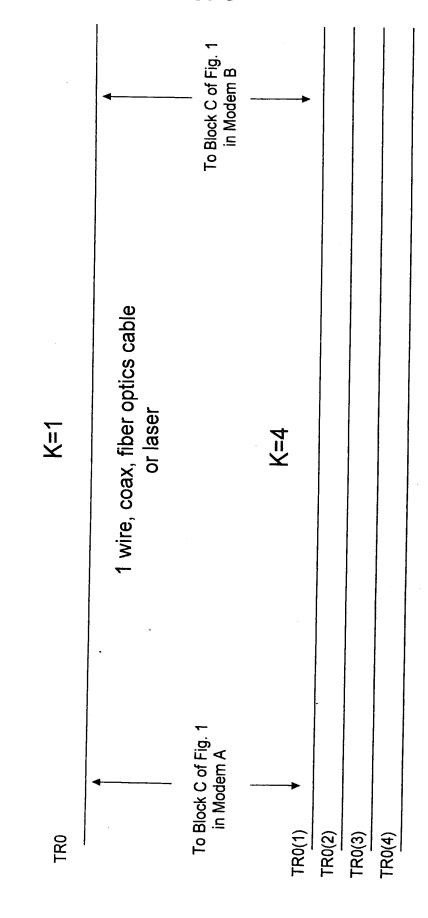
Notes N is the number of TR channels K=1 is the number of TR0 channels

Antennas to Repeater (Block D of Fig. 1) TR0(1) to TR0(4) TR0(1) TR0(3) TR0(4) TR0(2) Fig. 5 - The Space-Time Antenna Chamber (Block C of Fig.1) Shielded chamber walls Highly Echoic Chamber for K=4 to Space-Time transceiver (Block B of Fig. 1) TR(1) to TR(N) Antennas **TR(1) TR(2)** TR(N)

N is the number of TR channels K is the number of TR0 channels

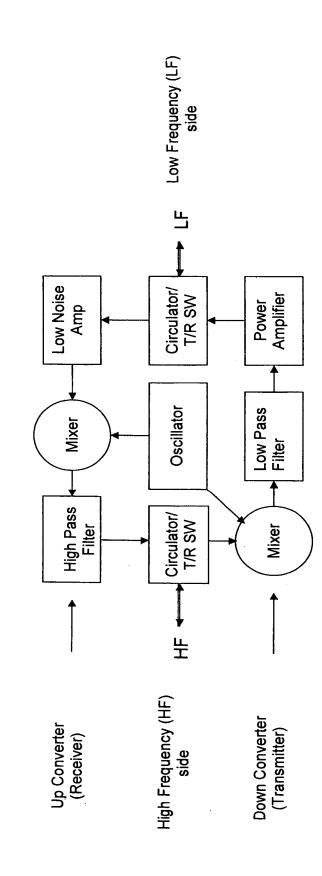
Notes

Fig. 6 – Repeater and Telecom Link (Block D of Fig. 1)

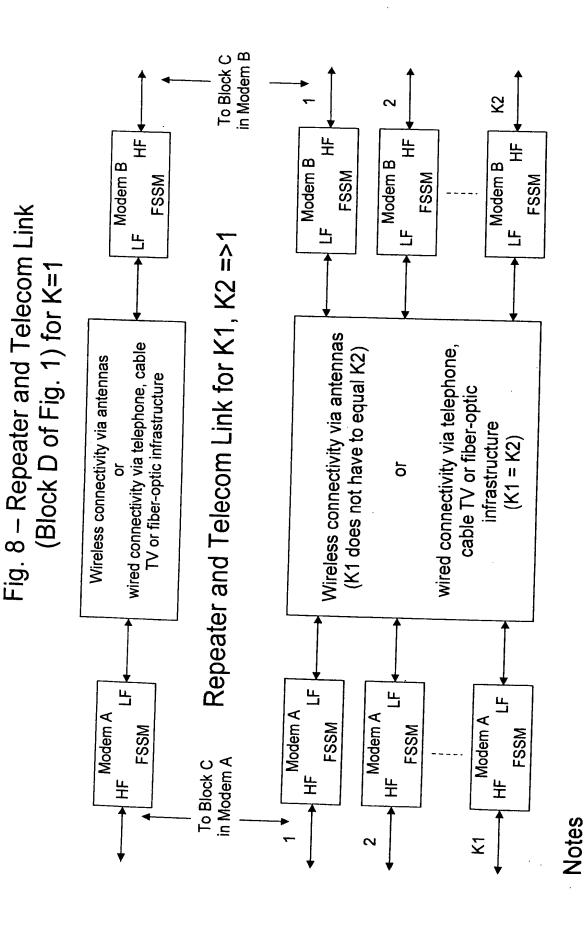


K=4 wires, coax, fiber optic cables or laser

Fig. 7 – Frequency Spectrum Shifting Module (FSSM) Block Diagram (part of Fig. 8)



One FSSM per K1 and per K2 channel



FSSM is described in Fig. 7